



The Submarine On Board Training Newsletter



Admiral's Corner

Hope you all had a safe and joyous holiday period, and to those of you who were underway, whether East or West, 'Thank you'.

I recently received a letter from the COMSUBLANT N7 discussing the results of the "round the world" tour of the Strike Doctrine Team. Strike will continue to be an ongoing core capability as we enter the 21st century. We have come a long way in recent years and today we are developing flexible responses tailored to meet Fleet Commanders' needs. So, today, I want to touch on what SOBT can do to help you at the deck plate level.

There are three legs supporting a successful strike program; communications, mission planning, and weapon handling/launching. SOBT has products that support all three of these areas.

Currently Mini Dama is our primary strike circuit, until it is 'relieved' by

NECC which is moving rapidly into the Fleet. I encourage you to ensure the Mini DAMA ICW is getting used.

The TLAM-C Vertical Launch System (VLS) and Torpedo Tube Launch (TTL) Training Model Computer Courseware is designed to emulate the BSY-1, CCS Mk 2 VLS/TTL system operations and displays to facilitate more effective submarine launch system training. This courseware accurately demonstrates the behavior of the entire launch system by allowing the operator to change the various event states, thereby simulating numerous operator selected launch scenarios, either in an automatic or manual mode of system operation. In addition, casualty scenarios may be selected to aid in the training of fault identification and trouble-shooting techniques.

Cruise Missile Trainer - Personal Computer (CMTpc), is a Windows based software solution to support cruise missile scenario generation and reconstruction for both surface ships and submarines. It supplies the necessary elements required to produce a challenging cruise missile exercise: contact definition, track entry, tasking messages, TLAM missions, real time exercise execution/

modification, TLAM engagement reconstruction and so on. CMTpc also offers debrief aids - automatic report generation and exercise playback - to support the presentation of results. In addition, each scenario can be scripted for transmission at a later time.

Each submarine should have received the RS-232 cable needed to hook up a laptop computer to the TAC-3/4, JMCIS computer, allowing download of the enhanced training scenario generation and strike planning files directly to the TAC-3/4 for stimulation of the Fire Control system.

The TLAM products are 'Master Level' products. You'll need some time to become a skilled user. But once you have made the training investment, the payback in successful mission execution will quickly justify the expenditure of your valuable time.

J.B. Padgett

Suggested Distribution of Copies

CO, XO, and COB (1 copy) -SOBT Products Manager (1copy)

This distribution of SOBT Training Trends will ensure that everyone will be aware of new SOBT products available for training needs.

Distribution Statement A: Approved for public release; distribution is unlimited



More Thoughts on Virtually Thoughtless Training

Based on some observations I've made on our recent visits to the various submarine homeports on both coasts, it is my opinion that still think that SOBT products are "teachers in a box" - requiring little or no input from the lecturer or seminar leader. This opinion is also borne out in feedback reports and phone calls we receive.

To elaborate on an article from the October '99 Newsletter, proper use of any SOBT training product is not merely popping a tape in the VCR or handing a CD to some member of your division with orders to extract all available data and retain. I think the rule that applies here is that your division or training group will get out of this type of training exactly what you put into it. Some of our videos are up to 50 minutes in length, and we all know what happens to any sailor, Chiefs and Officers included, if you start a tape and turn the lights off.

First of all, a single SOBT video or CD generally covers a variety of topics, as described in the letter of promulgation that was delivered with the product. This letter provides the lecturer with an easy-to-use guide to key points within each product with which he can spice up his training. If the promulgation letter is missing you have two recourses. If you are in port you can call the SOBT office and ask us to fax you a copy of the letter. This is quick and easy. If you're at sea you'll have to do things the old-fashioned way, by reviewing the product and noting time-tics or screen numbers. I know that this requires time in addition to developing the training lecture, but the effect that

it will have on your training and those who attend will pay large dividends in knowledge retention and eagerness of your lecture attendees to learn.

Even the qualification modules require a certain amount of attention by the qualified members of the duty section or division, Duty Chief or Engineering Duty Petty Officer. Ask the individual working on the module if he has turned off the computer and walked around to sight the gear he is learning. Not only does this serve to monitor qualification of a sailor through his qualifications, it also provides the hands-on involvement that has been the hallmark of submarine qualification for nearly one hundred years.

So take that SOBT tape that you've been meaning to use in your divisional training, and before you show it to the division, look at it yourself. Who knows? Maybe you'll learn something new.



Laptop Technical Support

NOTE: Do not open the access covers to the Panasonic laptop computers to attempt repairs. They are covered under a maintenance contract with Panasonic, OPENING THE COVERS WILL VOID THE WARRANTY.

Technical Support for SOBTDS Laptop Computers.

The SOBTDS Repair Facility provides all technical support. You can contact the Facility by calling the toll free tech support phone number (800-828-6289) or in area code 757 (368-9242) between the hours of 0800 - 1700 (Eastern Standard Time) Monday through Friday. Fleet

personnel may make Technical inquiries via either the "800" voice line or by e-mail to: tholden@rdsi.com or gperez@rdsi.com.

Tech support personnel knowledgeable in the SOBTDS will assist Fleet users in identifying whether repairs can be done locally or if Repair Facility servicing is required. If necessary, a new or refurbished laptop will be shipped to you Via 2nd Day Air. This requires a street address (no FPO) for UPS delivery. Return the malfunctioning laptop in the reusable shipping container. A postage paid return address sticker is included for you.

Technical Support for SNAP or ATIS Laptop Computers

Support for laptops used on the SNAP or ATIS systems is provided by the Naval In-Service Engineering Center East Detachment Norfolk's Joint Maritime Command Information System (JMCIS). Any broken or malfunctioning laptops used on the SNAP or ATIS system should be referred to JMCIS. Call JMCIS at 1 (800) 869-6413 for repair or technical support. Ship malfunctioning laptops to: Receiving Officer SPAWARSYSCEN CHARLESTON, Det St Juliens Creek Bldg. 59, Magazine Road, Portsmouth, VA 23702. SPAWAR does not repair cosmetic items or, laptops older than 36 months. This is the length of the maintenance agreement.

3Com, EtherLink III, Cards

Assistance for a broken or malfunctioning EtherLink III PC card can be obtained directly from the 3Com Corporation. The EtherLink III PC card comes with a full lifetime warranty covering any problem you may have with the EtherLink III PC card, Twisted-pair adapter or the combination adapter.

For service call 3Com at 1 (800) 876-3266. They will mail you a new unit and request you return the defective device in their postage paid return envelope.



Laptop Support for Units in Bangor Washington

Commands in the Bangor WA area can now obtain technical support for all SOBTDS, SNAP, ATIS laptops and ICWTS Mini-Towers at the new NAVAL INTERMEDIATE MAINTENANCE FACILITY PACIFIC NORTH-WEST

For service call NAVIMFACPACNORWEST at (360) 315-1743 and submit a 2K with each laptop or computer requiring service to Shop 67L. There are two important drawbacks in sending your SOBT laptops to NAVIMFACPACNORWEST for repair. The first is your ship will be charged for all parts and labor for the repairs. The second drawback is the length of time it takes to procure the parts and undertake the repairs, which is how long you will be without your computer asset.

Call the SOBT office with any questions or comments. Your point of contact is Mr. Paul Knieser at DSN 694-2895 or commercial (860) 694-2895.

Laptop Questions and Answers

Q: If today a submarine calls to tell you they have a broken SOBT computer, how long will it take to get a new one?

A: The turnaround time for computer repairs vary. However, in most cases a replacement laptop is shipped (overnight priority) within two to three working days. If the ship is deployed and requests repairs, the laptop is shipped to the point of their next port of call.

Unfortunately, overnight shipping is not available outside of the US. The phone numbers for the repair facilities are also listed in this newsletter under "Laptop Technical Support" on page 2.

Q: What are the plans to replace any Y2K non-compliant SOBT computers?

A: As far as we are concerned, there are no Y2K non-compliant SOBT computers. Training courseware distributed by SOBT are not date sensitive. That being said, we have come up with a fix for adjusting the date on the older SOBT laptops. For your convenience this fix is included in this newsletter "Submarine Onboard Training Delivery System Notes" on page 3.

SOBT Lifecycle Plan



SOBT has a life cycle plan in place for computer assets delivered to each submarine. The target number of SOBT computer assets is eight. Currently, one additional computer is being delivered to each 688 and above not listed on the deactivation list and having less than eight SOBT laptops onboard. Most ships have between six and eight SOBT assets already. Once every ship has eight SOBT laptops, by the end of FY00, any new laptops delivered from SOBT will be a "replacement" for an older system. The oldest asset on board will then belong to the ship and will not be supported by the SOBTDS repair depot. Does that mean that you have to send that asset to DRMO? NO! Continue using it until it no longer functions as a training platform and is beyond economical repair.

Submarine On Board Training Delivery System (SOBTDS) Panasonic Laptop Y2K Notes

1. Panasonic CF-45 laptop computers are fully Y2K compliant.
2. Panasonic CF-61 laptop computers are fully Y2K compliant.
3. Panasonic CF-41 laptop computers are Y2K compliant; However, the date in CMOS will not automatically advance to the year 2000. The date needs to be manually entered the first time the laptop is turned on after 0001 on 1 Jan 2000.

To manually change the date in CMOS, follow these steps:

- a. Turn on the laptop.
- b. Restart in DOS mode.
- c. Type "date" at the windows prompt, depress ENTER.
- d. Type in the new date, when asked. Type the full date IE... 01/01/2000, depress ENTER.
- e. Reboot.



...From The Greasy Keyboard



NAVADMIN 294/99, released in November '99 contains a wealth of information about the Information Technology (IT) courses offered by the NET-G vendor under a DoD-wide contract. Thousands of Navy personnel have had the opportunity to further their education, thanks to the ease of the internet. In a continuing effort to provide easy access to training, Chief of Navy Education and Training has announced the continued availability of Information Technology (IT) courses on the World Wide Web. More than 300 web-based courses are available at no cost to Department of Navy personnel, including Navy and Marine Corps active and reserve personnel and civilians.

Five ships, the USS STENNIS, USS TRUMAN, USS THEODORE ROOSEVELT, USS ABRAHAM LINCOLN, and USS EISENHOWER battlegroups, and 12 remote sites have installed the entire set of courses on their internal computer network. Future plans are for a Navy learning web site where personnel can access Navy-developed web-courses, third-party courseware, reference libraries, and links to other training and education opportunities. Since these IT courses will migrate to this larger, more robust web site, distribution of the IT courses via CD-ROM is limited to ships and remote sites that are unable to access one of the below Internet sites.

"The response we've received so far, in terms of sailors' usage of the on-line courses is overwhelming," said Peg David, CNET's IT Program Manager. As of September 30, 1999, 3,149 courses had been completed and 33,810 users accessed courses for a total time of

44,135 hours. Sixty-five percent of the 14,080 registered users are Navy, 6 percent Marine Corps, 20 percent civilians and nine percent other.

Courses available on-line range in scope from beginning computer applications, such as Word, PowerPoint, Access, and Excel, to LAN/WAN administration, CISCO router and programming development courses in C, C++, JAVA and Visual Basic to name a few. "This training can aid in professional certification programs, such as Microsoft Certified Systems Engineer, Database Administrator, A+ certification and a host of others," explains Ms. David. "In addition, more than 100 courses have been approved for evaluation by the American Council on Education (ACE)."

The IT courses may be accessed at any of the following web sites. All the sites, except CNET, can be accessed from home or work. When you log on to any of these sites, the user name and password are usn.

<http://usn.nteg.com>-due to high usage, SPAWAR and Norfolk sites may be faster.

<http://dl.damneck.navy.mil>- east coast Norfolk area.

<http://192.215.136.73>- is the new URL address for the SPAWAR site.

<http://www-cbt.cnet.navy.mil>-this site is available to CNET commands only.

Additional information is also available under "Technologies" on the CNET web site at <http://www.cnet.navy.mil>.

Your SOBT POC for this program is MMC(SS) Shawn W. Irish.

Trident Basic Enlisted Submarine Qualification Program

The First five CDs covering blocks I through V are complete. We are busy assembling the CDs for distribution to the fleet. As each completed block is returned from the manufacture they will be shipped to all TRIDENT commands.

Blocks VI through IX are in the final stage of development. After the subject matter experts finish reviewing the last four blocks, they will be finalized for distribution to the fleet.

Your point of contact is Mr. Paul Knieser.

Trident Submarine On Board Training Delivery System upgrade

You should already have the new (SOBTDS) Gateway computer systems onboard. The Gateway computers are replacing the aging (ICWTS) mini towers. The new computer systems consist of two Gateway E-3200 computers, two EV700 monitors and an APC Shipboard UPS 700X93 (Uninterruptable Power Supply). The computers are delivered with Windows 95 pre-installed. The primary use for the new Gateway computers is for hosting the Trident Basic Enlisted Submarine Qualification Program which was revised to run on the new system.

If you have not received your computers yet, call your local point of contact to arrange installation and setup of your new SOBTDS: Trident submarines stationed in Bangor, WA can call COMSUBGRU NINE, ETC McGuire at 396-6743. Trident submarines stationed in Kings Bay, GA can call COMSUBRON SIXTEEN, FTC Brown at 673-2001 ext. 9120. Your point of contact is Mr. Paul Knieser

Strategic Weapons Systems (SWS)



C4/D5 Missile Tube Heating and Cooling (ICW-SS003)

This interactive course allows for realistic simulation of Missile Heating and Cooling (MHC) components. The course is designed for the C4 and D5 Missile technicians. Additionally, the Nuclear Electronic Technician's can benefit from the section covering proportional controllers in 5SB and 6SB. This course will present a foundation of understanding of the MHC system and operation. Detailed instruction is provided on the controller to heaters interface, proportional controllers functional theory and a section for both the C-4: SMP 51-6656 and the D5: SMP 51-6460, verifying proper operation of the missile tube heating and cooling system water heater. Your point of contact is Mr. Paul Knieser.

D5 Missile Component Repair Procedures (ICW-M001) Version 4.0

This release of Missile Component Repair Procedures supercedes (ICW-M001) Version 3.0. This course provides self-paced refresher training for the TRIDENT II Missile Technician and cross training for the TRIDENT I Missile Technician. It presents preparatory information for experienced and non-experienced technicians on the processing and maintenance procedures for the TRIDENT II D5 missile UGM-133A and its related components. There are a

total of 20 different missile component repair topics covering a wide range of repair procedures from ground strap repairs to access door fastener and missile inverter fastener repairs. Your point of contact is Mr. Paul Knieser.

Trident II (D5) Umbilical Mate-Demate and Retract Mechanism Installation-removal (VT-M040) Revision 1

(VT-M040) Revision 1 is an update and Supersedes the first issue of Umbilical Mate-Demate and Retract Mechanism Installation-removal (VT-M040). This video is designed to reinforce training in techniques to install and remove the trident II (D5) missile umbilical and retractor mechanism. It consists of three sections, totaling 57 minutes and presents: umbilical installation and mating procedures, retractor mechanism installation and removal procedures, and umbilical demating procedures. The video can be used to train Trident II Missile technicians or cross train Trident I Missile technicians. Your point of contact is Mr. Paul Knieser.

D5 Equipment Section Handling Equipment (ICW-M004)

This course presents D5 Equipment Section Package Handling Support Equipment on the Trident II (D5) missile UGM-133A. It provides in-depth coverage of the D5 equipment section package handling support equipment physical and functional descriptions and equipment interfaces, along with operational demonstrations of selected pieces of equipment. It is provided for use in training TRIDENT II Missile Technicians and cross training TRIDENT I Missile Technicians. Your point of contact is Mr. Paul Knieser.

Combat Systems ADCAP Post Launch Trainer (APLT)

An updated APLT will soon be promulgated. The mailing is being done NOW! This popular, invaluable SOBT training product was and is in such demand that the "BETA REVIEW" copy was duplicated and will be distributed in the review format. Both structured and freeplay changes include BLOCK II, IIA, and III torpedo software. New Menu selections make this

version much more user friendly. In depth instructions and update change descriptions can be found in the "Read Me" file of the CD. Additionally, the Operator's Manual is printable. The CD is classified SECRET, and will be box mailed to your Squadron for issue to your submarine. This is the interim APLT, sent to meet your weapons training needs while the Windows version is in development. Your point of contact is Mr. Joe Valchar

ADCAP Wire-Guide Videos



Due to Fleet identified ADCAP wire coil / dispenser, guidance wire, and flex-hose problems, SOBT is developing two ADCAP wire-guidance related training and informational videos. One will present various MK 48 Torpedo Mounted Dispenser (TMD) operational procedures from IMA receipt to tube load. The new, improved MK62 MOD1 A-cable is also shown and discussed.

The second MK 48 video will present and demonstrate ship control and post-launch submarine maneuvers for optimum flex-hose and guidance wire system performance. Torpedo sequences, trajectories, maneuvering envelopes and clearance maneuvers are presented and discussed. These beauties should be on the boats by the spring of 2000. Your point of contact is Mr. Joe Valchar

Defense Visual Information Website

Here's an uly (or is it ulli, uli, ??) for all you training gurus. There are many training products developed by DoD and other military services that SOBT is unaware of. They are in video and computer based format. Thousands of training topics are available at your finger tips. They can be ordered over the net. General Military Training (GMT) topics are particularly abundant. Search thousands of military topics at <http://dodimagery.afis.osd.mil/>. Your point of contact is Mr. Joe Valchar

Thanks A Million!

During this time of gratitude and giving, SOBT, and myself in particular, would like to express our sincere thanks to all sea and shore commands that have and do support SOBT training material development. Most of the SOBT staff, both military and civilian, have "BEEN THERE / DONE THAT" and therefore know what an inconvenience this support can be. We too, have at one time or other, murmured those oft' heard words....."IS THAT *@%\$#!'IN SOBT CAMERA CREW HERE AGAIN?" We absolutely could not do it without your dedication and support. THANKS A MILLION!!! Your point of contact is Mr. Joe Valchar



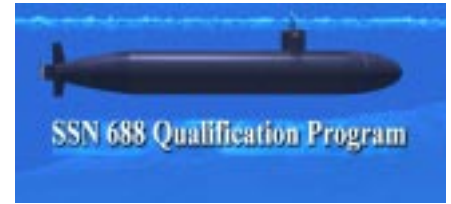
Feedback Forum



Thank you very much if you are among those who have taken time out of their busy day to send us constructive criticism! We have received many feedback reports during the past quarter that were worthy of consideration for the prestigious feedback of the quarter award. After due consideration and detailed analysis, we have made a decision. The winner of the prestigious SOBT feedback of the quarter award for the past quarter (October-December) is USS WYOMING (SSBN 742) BLUE for the following detailed comments on the SOBT Kings Bay Piloting courseware (ICW-N-98130):

WYOMING BLUE has used the piloting Kings Bay GA CD extensively to train our scope operators, piloting team, OOD's and contact coordinators. This is an exceptionally useful tool, one of the best I have seen. This really raises the bar for the level of quality and utility from a SOBT or any training product. Needless to say, I recommend it (XO).

EDITOR'S NOTE: *Your comments are appreciated and really help out. Most of time the people in the cellar do not get favorable feedback. Thanks again.*



SOBT Success Stories

In the last issue I asked you to send some of the ideas/ways you were doing business to get the most out of the training that was available to you. While the response hasn't been overwhelming, and I do realize I'm a shore duty puke and my desk is not only tripled up but has night riders attached, there were a few and here they are;

USS ANAPOLIS & USS SANTA FE: Both have seven (7) SOBT laptops, just like every other submarine. Both also have some LAN configuration, just like every other submarine, with the laptops that came with that install. In order to better facilitate use of SOBT products and better utilize all computer assets, these boats came up with a simple solution. During the initial boot-up phase a screen appears giving the individual two options; one is to log on to the ship's LAN, the other is to use SOBT products in stand-alone mode, meaning that the computer will be temporarily disconnected from the LAN. What this has done is effectively tripled the inventory of computers available for training. A winning situation no matter how you look at it. Bravo Zulu, USS Annapolis and USS Santa Fe!

USS ALBUQUERQUE: Underway there are laptops positioned in predetermined areas, rigged for underway of course, with a CD wallet next to them with all the qual CDs right there.

USS ALASKA: Alaska's qual instruction provides a listing of each ship system. Each system is annotated with one of three possible qualification paths. Level A systems are fully satisfied by completion of the indicated SOBT product. The LPO is responsible for making an appropriate entry on the trainee qual card. Level B systems require completion of the SOBT indicated product followed by checkout by a QPO, and include critical damage control and ship safety systems as well as systems where the SOBT product does not match exactly the installed ship system. Again, the LPO provides an annotation to show that the sailor has done his homework before he sees the QPO. Level C systems are only by interview with a QPO. Either there is no SOBT product available or it does not apply to ALASKA. (They reported a 28% reduction in the average time to qual and an improved level of knowledge for candidates at their Final Qual. Board!)

More ALASKA: "The Collision Avoidance Trainers are great. We used them to train the contact coordination team while on alert. I used SUBSCRIPT to create a scenario that matched the simulated navigation channel off Pearl Harbor used by the TRE team. An OOD, lookout and phone talker were stationed in OPCON with a PC running SURFCAT. On the CONN we used two computers to run SPOT and a third computer to run ORCA. Sonar ran SCAT. We also set up a computer to run GEOSIT and used it as the instructor console to run the problem. Using SUBSCRIPT we printed out our simulated navigation channel and scaled it to match the HI chart and overlayed it on the chart. We then transited the simulated navigation channel conducting TRE type drills and evolutions. During our patrol we had no mod-alert training time except for REFTRA at the start of patrol. I'm sure that the collision avoidance trainers were the key that allowed us to get an Above Average in Contact Coordinating during our TRE."

USS COLUMBIA: "We are making copies of the SSM CD-ROM and issuing them to newly reporting personnel to use together with the SOBT ICW. I believe these two products work well together."

Historically, we of the Silent Service have prided ourselves on our commitment to and execution of training. Don't mix the two up and be silent about training. Share what works, and what doesn't!

Speaking of which, have you seen the CSL TRE Team's picks for this quarter?

A. Elf Noise Evaluation SVT-C-005: very useful for SSN COMM ET, Wardroom, and cross qualification training. Material presented serves as a good refresher for those not proficient with this circuit.

B. Submarine Dama Operations SVT-C-9656: also excellent cross qualification and wardroom training. Primarily used for initial level of knowledge and refresher training.

C. Trident II Closure Detonator Checks ICW-L-001: provides concise procedural walkthrough training. Recommended as initial level of knowledge introduction and periodic review.

D. Trident Basic Enlisted Qualification CD's: broken down by corresponding qualification group these CD's are an outstanding augment to the onboard enlisted qualification program.

E. NAVSTAD tapes and booklets: although element level playback is not an option for our older sonar systems, these tapes provide real contact data for familiarization and have corresponding program guide booklets.

F. Rest Of World Visual Recognition CBI-ID-97009: interactive tool for visual recognition of other than CIS platforms. Though there are no periscope examples, the side and overhead examples provided are good for general familiarization.

G. Multimedia Interactive Steer Training VOL 4 and 5 CD's: Close CPA & Reconnaissance Modules. These CD's continue to be a valuable tool for tactical decision training within the limits of the controlled simulation. These are best served when used as part of an OOD/Sonar Sup seminar.

H. ADCAP Post Launch Trainer Ver. 2.12 CBI-W-9578: this updated interactive tool covers TPU weapons and extended milestones.

I. Tomahawk VLS Onloading and Maintenance Operations (SSN) Ver 2.0 CBI-W-9660: this courseware provides the CWHs an outstanding overview of the TLAM VLS program from logistics to operation.

J. Vertical Launch System Pressure/Vent System Operation Ver 1.0 CBI-W-9538: an excellent operator level, general knowledge tool on PVC system operation that illustrates component level interaction within the system.

K. Tomahawk Loading and Handling Operations for Torpedo Tube Launch Ver 2.0 CBI-W-9682: excellent tool for the operator to gain/refresh general knowledge on TLAM TTL operations.

Going Deep,

CDR Adrian C. McElwee





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